

| Ref # | Hits | Search Query                                       | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S1    | 58   | ((250/310).CCLS.) and charging) and retarding      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/07/23 17:01 |
| S2    | 1    | "6084238".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/23 17:07 |
| S3    | 1    | "5668372".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/23 17:08 |
| S4    | 1    | "3736422".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/23 17:09 |
| S5    | 193  | ((250/310).CCLS.) and charging                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/07/23 17:41 |
| S6    | 20   | ((250/310).CCLS.) and charging) and photoelectrons | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/07/23 17:42 |
| S7    | 1    | "5872358".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/23 17:48 |
| S8    | 1    | "5986263".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/23 17:50 |
| S9    | 2    | ("6344750").PN.                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2003/07/24 19:35 |
| S10   | 1    | "6091249".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/24 19:06 |
| S11   | 1    | "5493116".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/24 19:10 |
| S12   | 1    | "5401972".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/24 19:10 |
| S13   | 1    | "4843330".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/24 19:10 |
| S14   | 1    | "4417203".PN.                                      | US-PGPUB;<br>USPAT  | OR               | ON      | 2003/07/24 19:11 |
| S15   | 36   | ((414/217).CCLS.) and (electron adj beam)          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR               | ON      | 2003/07/24 19:44 |

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| S16 | 1   | "4664578".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:48 |
| S17 | 1   | "4565601".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:49 |
| S18 | 1   | "4529869".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:49 |
| S19 | 1   | "4506455".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:49 |
| S20 | 1   | "4498833".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:49 |
| S21 | 1   | "4487675".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:49 |
| S22 | 1   | "3756067".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:50 |
| S23 | 1   | "3656454".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:50 |
| S24 | 1   | "3521765".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:50 |
| S25 | 1   | "3407097".PN.                                 | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/24 19:50 |
| S26 | 0   | furumiya-h-\$.in.                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2003/07/30 16:23 |
| S27 | 498 | (250/251).CCLS.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/07/30 16:23 |
| S28 | 8   | ((250/251).CCLS.) and<br>photoelectrons       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2003/07/30 16:27 |
| S29 | 957 | (250/307).CCLS.                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2003/07/30 16:27 |
| S30 | 302 | ((250/307).CCLS.) and (charge or<br>charging) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2003/07/30 16:28 |

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| S31 | 31   | ((250/307).CCLS.) and (charge or charging)) and photoelectrons | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2003/07/30 16:28 |
| S32 | 1    | "5441849".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:30 |
| S33 | 1    | "5591970".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:30 |
| S34 | 1    | "4992661".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:46 |
| S35 | 1    | "4976843".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:46 |
| S36 | 1    | "4957602".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:46 |
| S37 | 1    | "4956043".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:47 |
| S38 | 1    | "4851668".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:47 |
| S39 | 1    | "4795529".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:47 |
| S40 | 1    | "4116721".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:47 |
| S41 | 1    | "4088799".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:48 |
| S42 | 1    | "3497775".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2003/07/30 16:48 |
| S43 | 1078 | (414/217).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2004/09/28 17:59 |
| S44 | 42   | ((414/217).CCLS.) and (mini adj environment)                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 17:59 |
| S45 | 4    | ((414/217).CCLS.) and (mini adj environment)) and laminar      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 18:13 |
| S46 | 1    | "5752796".PN.  | US-PGPUB;<br>USPAT  | OR | ON  | 2004/09/28 18:03 |
| S47 | 37   | "5752796".URPN.  | USPAT   | OR | ON  | 2004/09/28 18:06 |

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| S48 | 134 | ((414/217.1).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2004/09/28 18:13 |
| S49 | 20  | ((414/217.1).CCLS.) and laminar  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 18:22 |
| S50 | 61  | ((414/217).CCLS.) and laminar  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 18:23 |
| S51 | 51  | ((414/217).CCLS.) and laminar)<br>not (((414/217.1).CCLS.) and<br>laminar)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:06 |
| S52 | 2   | ("5665968").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2004/09/28 19:06 |
| S53 | 4   | ((250/310).CCLS.) and ((250/441.<br>11).CCLS.) and (turbo or<br>turbomolecular)    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:14 |
| S54 | 0   | ((250/310).CCLS.) and ((250/441.<br>11).CCLS.) and roots and pump                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:14 |
| S55 | 692 | (turbo or turbomolecular) and roots<br>and pump                                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:15 |
| S56 | 430 | ((turbo or turbomolecular) and<br>roots and pump) and vacuum                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:15 |
| S57 | 202 | ((turbo or turbomolecular) and<br>roots and pump) and vacuum) and<br>semiconductor | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:34 |

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| S58 | 46   | (((((turbo or turbomolecular) and roots and pump) and vacuum) and semiconductor) and ((sem) or (electron adj microscope)))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:20 |
| S59 | 60   | (((((turbo or turbomolecular) and roots and pump) and vacuum) and ((sem) or (electron adj microscope)))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:20 |
| S60 | 14   | (((((turbo or turbomolecular) and roots and pump) and vacuum) and ((sem) or (electron adj microscope)))) not (((((turbo or turbomolecular) and roots and pump) and vacuum) and semiconductor) and ((sem) or (electron adj microscope)))) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:20 |
| S61 | 55   | (((((turbo or turbomolecular) and roots and pump) and vacuum) and inspection   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 19:35 |
| S62 | 210  | (250/441.11).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2004/09/28 20:22 |
| S63 | 1817 | ((250/310).CCLS.) or ((250/441.11).CCLS.)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 20:22 |
| S64 | 64   | ((((250/310).CCLS.) or ((250/441.11).CCLS.)) and root  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 20:22 |
| S65 | 11   | (((((250/310).CCLS.) or ((250/441.11).CCLS.)) and root) and vacuum and pump  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2004/09/28 20:23 |
| S66 | 1633 | (250/310).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2004/09/28 22:46 |

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| S67 | 115  | ((250/310).CCLS.) and (ccd or tdi)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/09/28 22:47 |
| S68 | 66   | ((250/310).CCLS.) and (ccd or tdi))<br>and inspection             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/09/28 22:47 |
| S69 | 78   | roots adj vacuum adj pump   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/09/28 23:21 |
| S70 | 3547 | turbo adj molecular adj pump                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/09/28 23:21 |
| S71 | 6    | (roots adj vacuum adj pump) and<br>(turbo adj molecular adj pump) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2004/09/28 23:22 |